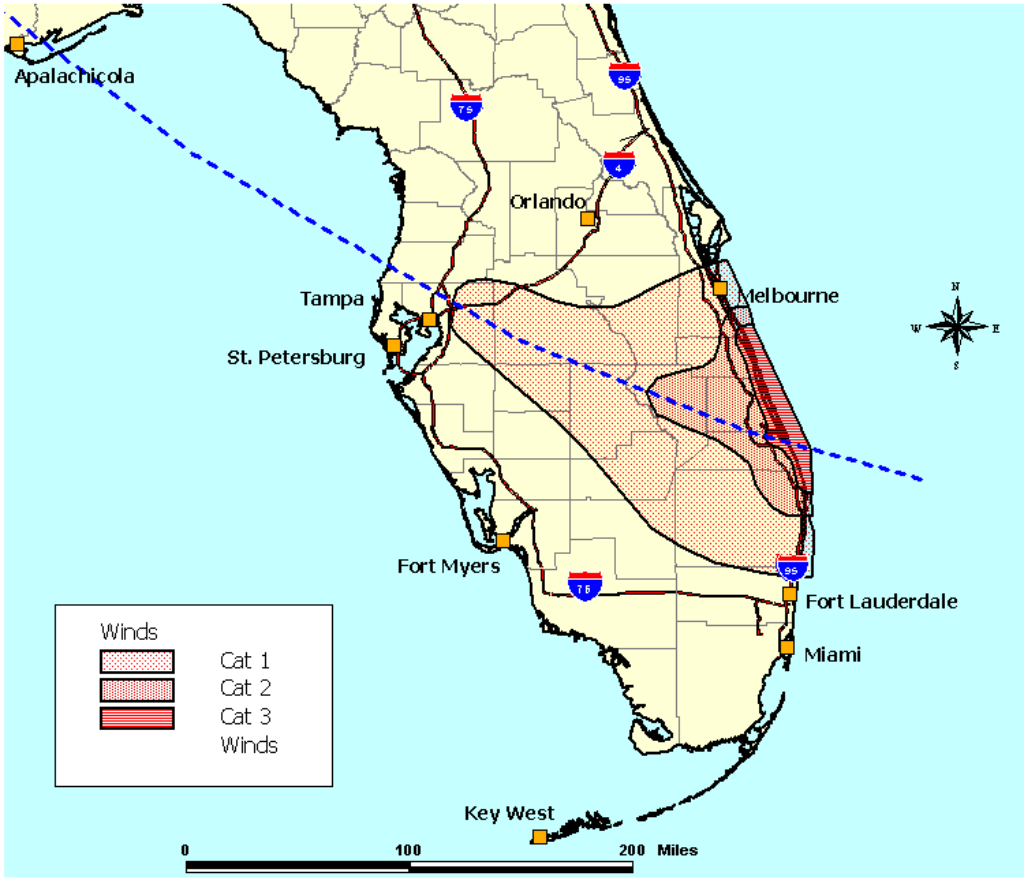
# Hurricane Frances Wind Distribution

## Landfall Expected Within About 6 Hours

**For Official Use Only!**




***Most Probable Landfall Wind Distribution***

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Wind Field**

**Sources:**
HURREVAC
LRL-DEBRIS

**CELRL-OP GIS Group**

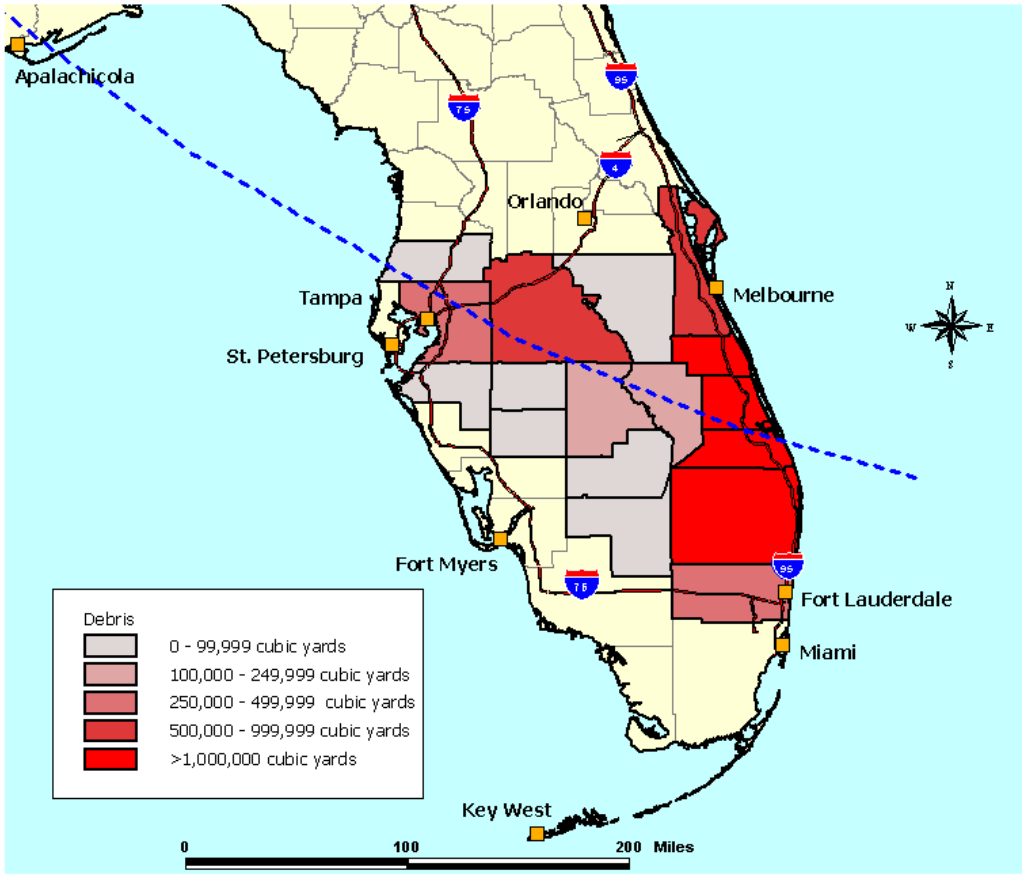
**Generated By:**
Terry Siemsen

**Generated Date:**
1730 EDT
09/04/2004

# Hurricane Frances Debris Model

## Landfall Expected Within About **6** Hours

**For Official Use Only!**




### ***Most Probable Landfall Debris Model Results***

Florida – 16,336,000 $yd^3$

*Model results per county on following page*

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Debris Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date:**
1730 EDT
09/04/2004

**CELRL-OP GIS Group**

Louisville Operations Division GIS

# Hurricane Frances Debris Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**

| State | County | Yards per County |
|---|---|---|
| Florida | | |
| | Brevard | 696,000 |
| | Broward | 351,000 |
| | De Soto | 5,000 |
| | Glades | 12,000 |
| | Hardee | 26,000 |
| | Hendry | 22,000 |
| | Highlands | 165,000 |
| | Hillsborough | 390,000 |
| | Indian River | 2,300,000 |
| | Manatee | < 1,000 |
| | Martin | 2,650,000 |
| | Okeechobee | 185,000 |
| | Osceola | 28,000 |
| | Palm Beach | 5,500,000 |
| | Pasco | 56,000 |
| | Polk | 750,000 |
| | St Lucie | 3,200,000 |
| | | |
| TOTAL | | 16,336,000 |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Debris Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

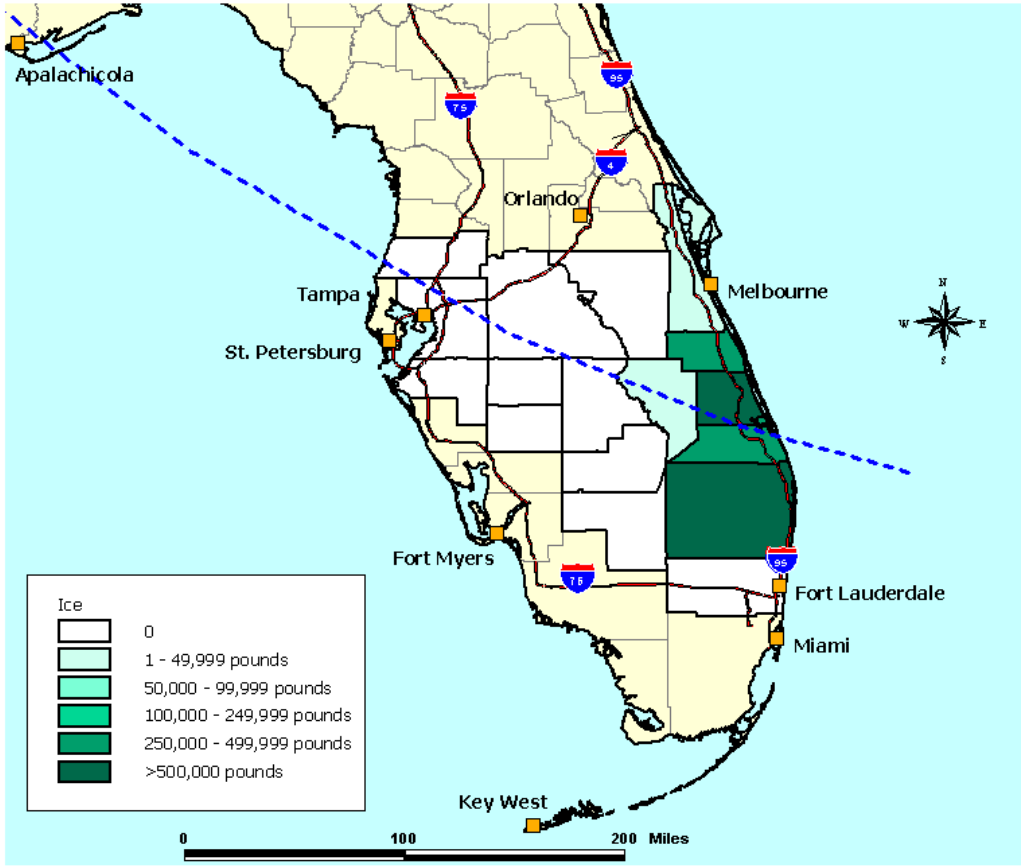
**Generated Date:**
1730 EDT
09/04/2004

**CELRL-OP GIS Group**

# Hurricane Frances Ice Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**




### *Most Probable Landfall Ice Model Results*

Florida – 2,206,000 pounds

*Model results per county on following page*

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Ice Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
1730 EDT
09/04/2004

**CELRL-OP GIS Group**

Louisville Operations Division GIS

# Hurricane Frances Ice Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**

| State | County | Pounds per County |
|---|---|---|
| Florida | | |
| | Brevard | 30,000 |
| | Indian River | 380,000 |
| | Martin | 452,000 |
| | Okeechobee | 41,000 |
| | Palm Beach | 693,000 |
| | St Lucie | 610,000 |
| | | |
| TOTAL | | 2,206,000 |

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Frances will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Ice Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
1730 EDT
09/04/2004

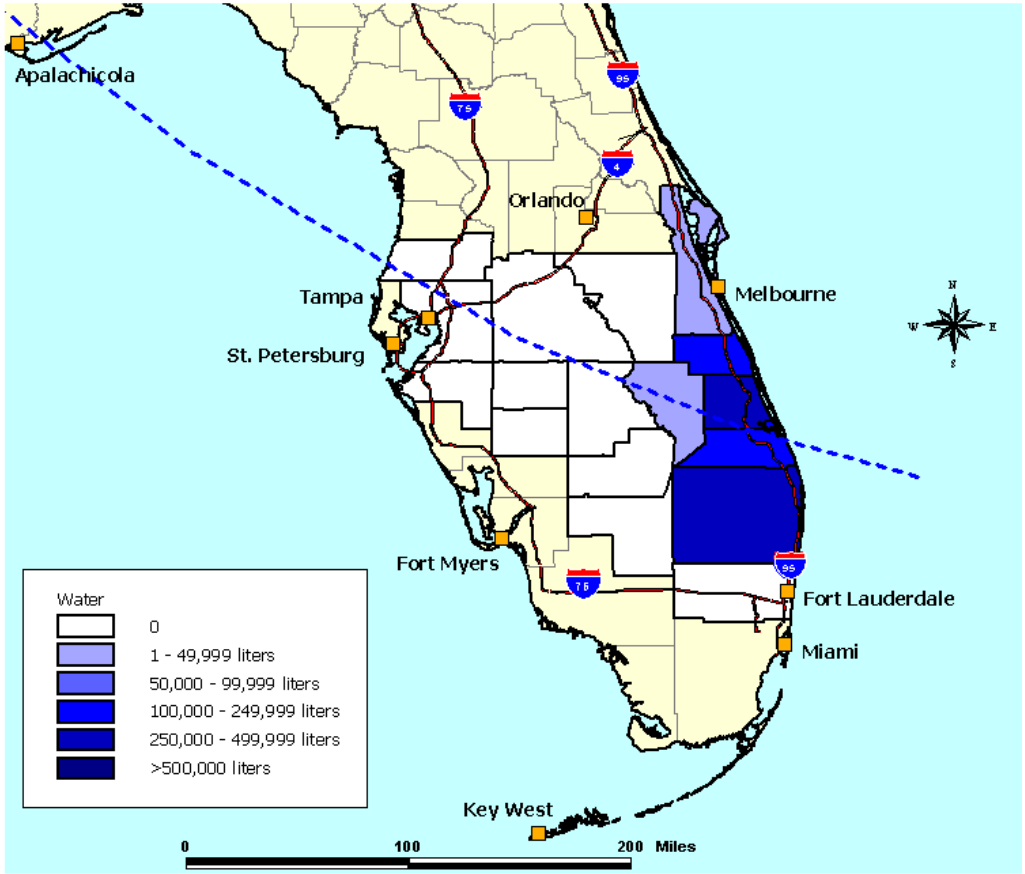
**CELRL-OP GIS Group**

Louisville Operations Division GIS

# Hurricane Frances Water Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**




### *Most Probable Landfall Water Model Results*

Florida – 1,184,000 liters

*Model results per county on following page*

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Water Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
1730 EDT
09/04/2004

**CELRL-OP GIS Group**

# Hurricane Frances Water Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**

| State | County | Liters per County |
|---|---|---|
| Florida | | |
| | Brevard | 15,000 |
| | Indian River | 191,000 |
| | Martin | 236,000 |
| | Okeechobee | 22,000 |
| | Palm Beach | 385,000 |
| | St Lucie | 335,000 |
| | | |
| TOTAL | | 1,184,000 |

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Frances will have power outage in this area will cause a need for water.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Water Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
1730 EDT
09/04/2004

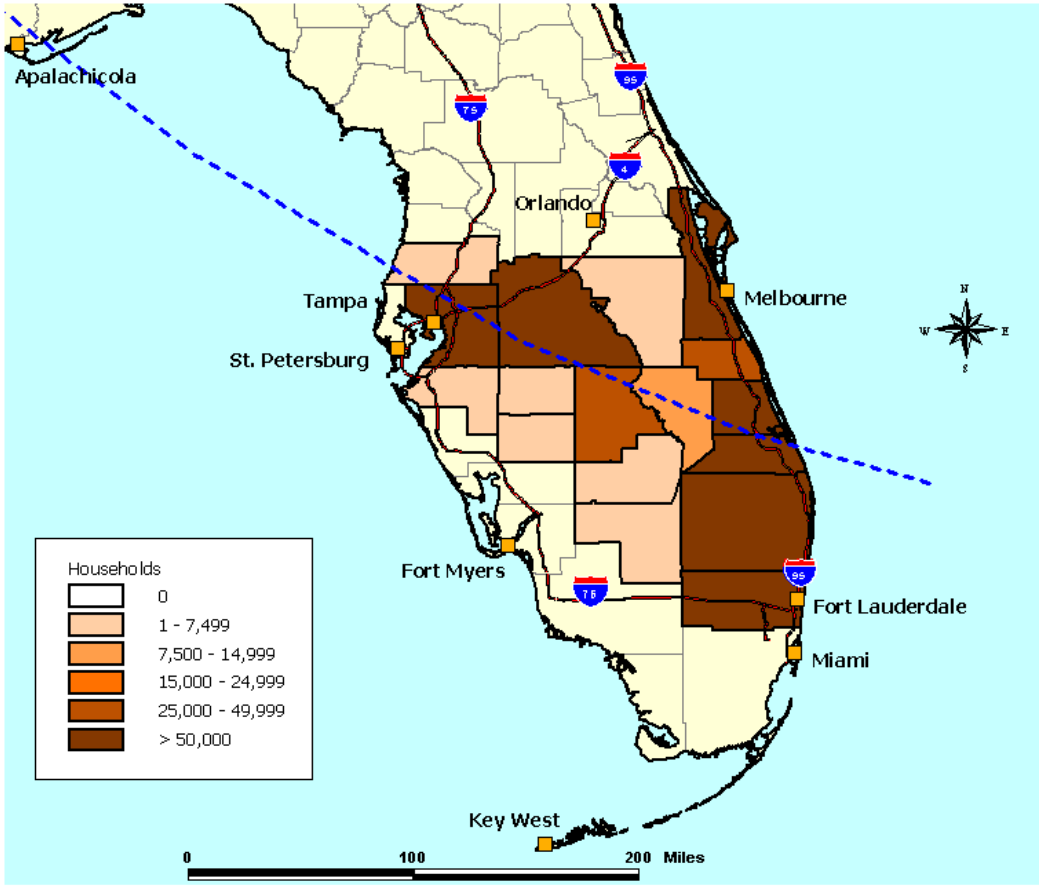
**CELRL-OP GIS Group**

Louisville Operations Division GIS

# Hurricane Frances Households Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**




### *Most Probable Landfall Households Model Results*

Florida – 1,142,000 households

*Model results per county on following page*

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Households Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
1730 EDT
09/04/2004

**CELRL-OP GIS Group**

Louisville Operations Division GIS

# Hurricane Frances Households Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**

| State | County | Households |
|---|---|---|
| Florida | | |
| | Brevard | 112,000 |
| | Broward | 68,000 |
| | De Soto | < 1,000 |
| | Glades | 3,000 |
| | Hardee | 6,000 |
| | Hendry | 5,000 |
| | Highlands | 37,000 |
| | Hillsborough | 85,000 |
| | Indian River | 49,000 |
| | Manatee | < 1,000 |
| | Martin | 55,000 |
| | Okeechobee | 13,000 |
| | Osceola | 1,000 |
| | Palm Beach | 472,000 |
| | Pasco | 1,000 |
| | Polk | 158,000 |
| | St Lucie | 77,000 |
| | | |
| TOTAL | | 1,142,000 |

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Households Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
1730 EDT
09/04/2004

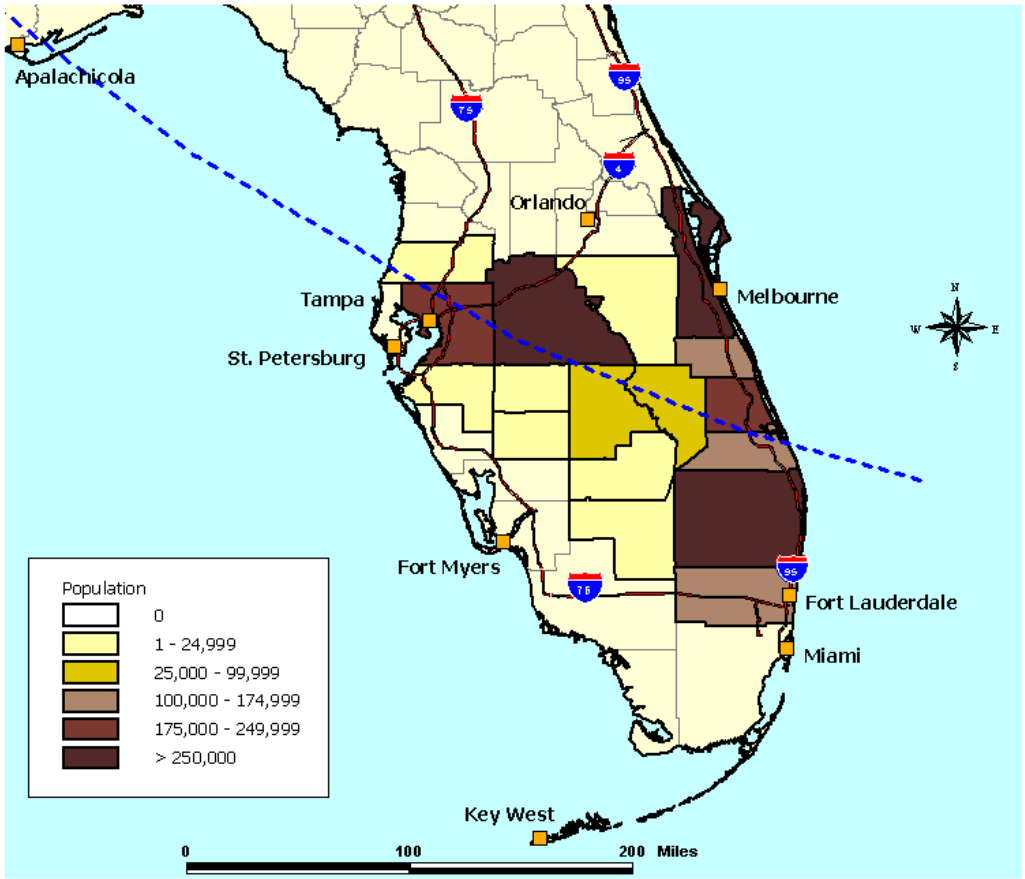
**CELRL-OP GIS Group**

Louisville Operations Division GIS

# Hurricane Frances Population Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**




### *Most Probable Landfall Population Model Results*

Florida – 2,805,000 persons

*Model results per county on following page*

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Population Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
1730 EDT
09/04/2004

**CELRL-OP GIS Group**

Louisville Operations Division GIS

# Hurricane Frances Population Model

## Landfall Expected Within About 6 Hours

**For Official Use Only!**

| State | County | Population |
|---|---|---|
| Florida | | |
| | Brevard | 269,000 |
| | Broward | 166,000 |
| | De Soto | 1,000 |
| | Glades | 7,000 |
| | Hardee | 18,000 |
| | Hendry | 15,000 |
| | Highlands | 86,000 |
| | Hillsborough | 239,000 |
| | Indian River | 112,000 |
| | Manatee | < 1,000 |
| | Martin | 126,000 |
| | Okeechobee | 36,000 |
| | Osceola | 3,000 |
| | Palm Beach | 1,126,000 |
| | Pasco | 3,000 |
| | Polk | 405,000 |
| | St Lucie | 193,000 |
| | | |
| TOTAL | | 2,805,000 |

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Frances Population Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**CELRL-OP GIS Group**

**Generated By:**
Terry Siemsen

**Generated Date**
1730 EDT
09/04/2004